

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS)/CPS (COUNTDOWN PEDESTRIAN SIGNALS) AND INSTALLATION OF ADA COMPLIANT CURB RAMPS AT THE INTERSECTION OF MD 175 (ANNAPOLIS ROAD) AND THE ENTRANCE TO ODENTON SHOPPING CENTER IN ANNE ARUNDEL COUNTY, MARYLAND. MD 175 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 175 (ANNAPOLIS ROAD) AND THE ENTRANCE TO ODENTON SHOPPING CENTER - WEST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS ANNAPOLIS AT SHOPPING CENTER. WAIT." **

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019

MR. JOE GECKLE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1000

MR. MIKE HUBER
DISTRICT UTILITY ENGINEER
PHONE: (410) 841-1039

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	46 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	2 EACH	R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS ANNAPOLIS ROAD"
	4 EACH	W11-2 BLK/FY (36 IN. x 36 IN.)
	2 EACH	W16-7DR BLK/FY (24 IN. x 12 IN.)
	2 EACH	W16-7PL BLK/FY (24 IN. x 12 IN.)

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.03-03 (LEFT LANE CLOSURE) STANDARD NO. MD-104.06-11 (MOBILE SERVICE WORK)
STANDARD NO. MD-104.03-05 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.03-07 (PARTIAL ROADWAY CLOSURE)

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

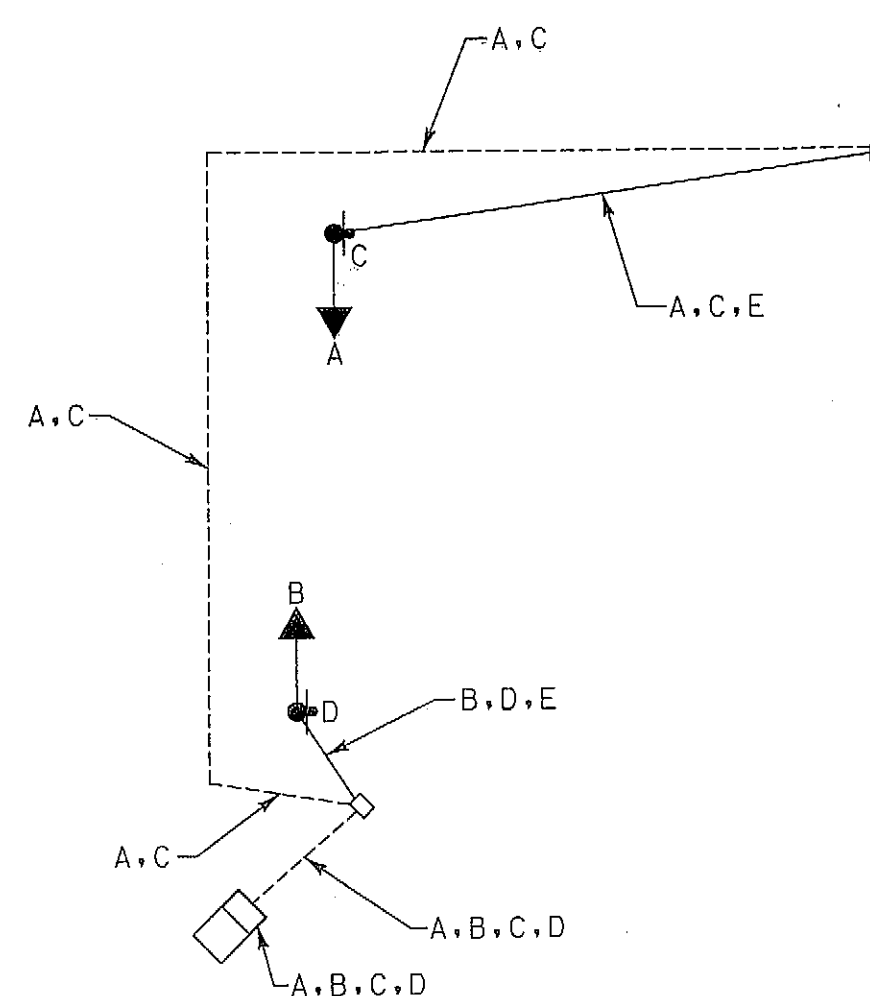
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	CLASS 2 EXCAVATION
2002	2 C.Y.	TEST PIT EXCAVATION
5003	210 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	110 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	100 L.F.	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	90 L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	180 S.F.	5 INCH CONCRETE SIDEWALK
6003	30 S.F.	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8002	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8005	1 EACH	ADJUST HANDHOLE TO GRADE WITH NEW FRAME AND COVER
8008	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8009	2 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8018	2 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8027	1 EACH	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8043	70 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8044	34 L.F.	WOOD SIGN SUPPORTS UP TO 4" X 6"
8045	35 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8047	95 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8058	300 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8060	315 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

PHASE CHART

1	2	3	4	5	6	7	8	9	10
R	R	R	R	R	R	R	R	R	R
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
G	G	G	G	G	G	G	G	G	G

PHASE 2 + 6	G	G	G	G	R	R	R	R	DW	DW	
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	
PHASE 4 + 8	R	R	R	R	G	G	G	G	DW	DW	
4 + 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	
PHASE 4 ALT + 8	R	R	R	R	G	G	G	G	WK	WK	
PED. CLEARANCE	R	R	R	R	G	G	G	G	FLDW	FLDW	
4 ALT + 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK	

WIRING DIAGRAM



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B }
C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D }
E } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

TOD NO: XX525-05
SHA NO: AA164B51
MD 174 @ Pioneer Rd/MD 175 @
Odenton Shopping Center



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 175 & the ENTRANCE TO
ODENTON SHOPPING CENTER
(ODENTON, MARYLAND)

GENERAL INFORMATION SHEET

SCALE NONE DATE JUNE 2013 CONTRACT NO. XX5255195

DESIGNED BY J. RASMUSSEN COUNTY ANNE ARUNDEL

DRAWN BY J. RASMUSSEN LOGMILE 02017502.35

CHECKED BY N. LEARY TMS NO. 1659

F.A.P. NO. TOD NO.

TS NO. 1241E DRAWING TSP-3 OF 6 SHEET NO. 3 OF 6

WR&A
WHITMAN, REQUARDT
& ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

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BY: jrasmussen